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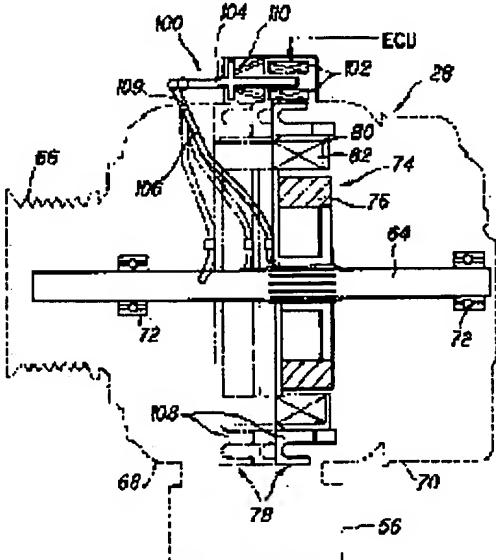
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## (54) ALTERNATOR CONTROLLER FOR VEHICLE

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain a small-sized lightweight alternator controller for vehicle in which power generation is controlled optimally while enhancing the efficiency by composing a rotary driven field pole coupled with the output shaft of an internal combustion engine of a permanent magnet and varying the flux density to be interlinked with an armature coil depending on a detected operating state.

**SOLUTION:** The rotor 274 of an alternator 8 is spline coupled with a rotor shaft 64 which is coupled through a pulley 66 and a belt with an engine crankshaft and the field pole thereof is formed of a permanent magnet 76. Outputs from a sensor group for detecting the operating state of an internal combustion engine are inputted to a control unit ECU. A solenoid 102 is controlled by an output signal from the ECU to regulate the stroke of a plunger 104 and a disc 108 is displaced in the axial direction through a lever 106 thus shifting a stator coil 82. Flux density to be interlinked with the stator coil 82 is varied by means of an axial direction displacement mechanism 100 and the power generation is controlled optimally depending on the operating state of internal combustion engine.



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